Zecheng Li

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Seeking a Software Engineer Internship

EDUCATION

University of San Francisco, San Francisco, CA ***Aug. 2016 - Dec.2020***
B.S. in Computer Science Major GPA: 3.92
University of Southern California, Los Angeles, CA ***Aug. 2021 - Present***
M.S. in Computer Science

PROFESSIONAL EXPERIENCE

Oigetit Fake News Filter (https://oigetit.com/breaking) ***Feb. 2021 - Jun. 2021***
Web Developer Intern

- Leveraged user behavior analytics by applying **Google Analytics** in SPA to increase retention rate by 10%
- Used **Angular custom directives** and develop reusable components and templates to speed up the development time
- Created custom event streams using **RxJS** Observable library to deal with asynchronous data calls and callbacks
- Worked with **JASMINE** and **Protractor** for unit testing to help gauge architecture performance
- Optimized the load time (dependencies, cache size, http connections, etc.) of the site from 4.2 seconds to 2.8 seconds

Inko. Inc, (Tattoo App Startup) San Francisco, CA （https://www.instagram.com/inko.tattoo/?hl=en ） ***Dec. 2019 - Dec. 2020***
Mobile Developer (IOS)

- Designed UI of the app using Interface Builder, AutoLayout, Storyboards, Xibs to adapt to different screen sizes
- Used architectures such as **MVVM(RxSwift), RxFlow** to change the cutting of storyboard into atomic unites, ease the implementation of dependency injection and promote reactive programming
- Set up Continuous Integration with **Travis CI** to enable fast feedback loop and increased code quality
- Utilized profiling Instruments (**time profiler**) on Xcode to improve cpu usage and prevented memory leak
- Created A/B Testing with Optimizely to improve user engagement by 20%

University of San Francisco, San Francisco, CA ***Aug. 2019 - Dec. 2019***
Teaching Assistant of Computer Architecture

- Held weekly office hours for 50+ students to get help on homework, labs, and any course concepts
- Assisted the professor write test cases for each class project

COURSE PROJECTS

Trade (Online marketplace and clothing reseller website) ***Nov. 2019 - Aug. 2020***

- Developed the application security module using **Spring AOP** and Inversion of Control queries to increase its reusability
- Utilized **docker** to package and run the application and **maven** to manage dependencies
- Configured and performed load tests and developed test plan, test script, and reports by using **JMeter** and **Splunk**
- Designed the database and server-side caching with **MongoDB, Redis** Cache to reduce memory usage by 25%

Data Processing in Cloud ***Jan. 2020 - May. 2020***

- Integrated various components & steps in the cloud (storage, data cleanup, data transformation, data analytics) to develop real-time Ads bidding data processing pipelines with **Apache Beam Java SDK** and **MapReduce** framework
- Optimized the pipeline with fusion optimization and combine optimization to increase dataflow performance by 40%

Furniture Recommendation App （https://github.com/zechengli/Furniture-Recommendation ） ***Jan. 2019 - June 2019***

- Designed a hybrid recommender system model (collaborative filtering, content-based) to predict user's favorite furniture
- Configured and Deployed the application in AWS using the core feature: **AWS Amplify framework**

TECHNICAL SKILLS

Programming Languages: Java, Swift, Javascript, C, Objective-C, Python, C++
Database: MySQL, MongoDB, PostgreSQs
Framework: UIKIT, RXSwift, Spring MVC, Spring Boot, Spring Data JPA, Spring Security, Angular, Jasmine, React.js, RxJs, Apache Beam, MapReduce
Other: Heroku, AWS Amplify, Docker, Linux, Unix, Postman, JUnit, JMeter, Maven